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TITLE : TREATMENT OF SEWAGE BY FLUIDIZED BED TYPE APPARATUS

ABSTRACT : PURPOSE: To improve the treating performance for sewage in a biological treatment method for sewage by a fluidized bed type apparatus, by using the moldings produced by fixing sludge with a polymer resins a fluid media.

CONSTITUTION: Thermosetting resin is added to the cake obtd. by dehydrating the excess sludge produced in treatments of sewage, night soil, etc. and after granulation, the mixture is heated and cured, whereby moldings are obtd. The resins used are phenolic, melamine and urea resins, and are added to the sludge in the form of a precondensate. The resulted spherical sludge moldings have strength and low apparent specific density and float in water usually; therefore, if a prescribed amt. of such moldings are added in an aeration tank, the moldings form a fluidized and suspended state easily. If sewage is supplied continuously into such aeration tank, all the surfaces of the moldings have tachiness on account of aerobic microorganisms, and the treating performance is thus increased.

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